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CNC CHARLESTON
5090.3a

ABOVE GROUND STORAGE TANK (AST) FOR BUILDING X-12 ASSESSMENT REPORT
CNC CHARLESTON SC
5/14/2001
ENVIRONMENTAL ENTERPRISE GROUP

See Section VII

South Carolina Department of Health and Environmental Control (S.C.D.H.E.C.)
Underground Storage Tank (UST) Assessment Report

Submit Completed Form to:

Date Received

State Use Only

UST Regulatory Section
SCDHEC
2600 Bull Street
Columbia, South Carolina 29201
Telephone (803) 734-5331

I OWNERSHIP OF SUSPECTED UST(S)

Agency/Owner: Southern Division, Naval Facilities Engineering Command, Caretaker Site Office

Mailing Address: P.O. Box 190010

City: N. Charleston State: SC Zip Code: 29419-9010

Area Code: 843 Telephone Number: 743-9985 Contact Person: Matthew Humphrey

II SITE IDENTIFICATION AND SUSPECTED LOCATION

Site I.D. #: Unregulated

Facility Name: Charleston Naval Base Complex, Building X-12

Street Address: 2277 South Hobson Avenue

City: North Charleston, 29405 County: Charleston

III CLOSURE INFORMATION

Closure Started: 14 May 2001

Closure Completed: N/A

Number of USTs Closed: 0 -no tank found

N/A

EEG, Inc.

Consultant

UST Removal Contractor

IV. CERTIFICATION (Read and Sign after completing entire submittal)

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate and complete.

Matthew Humphrey

Name (Type or Print)

Signature

V. UST INFORMATION

- A. Product.....
- B. Capacity.....
- C. Age.....
- D. Construction Material.....
- E. Month/Year of Last Use.....
- F. Depth (ft.) To Base of Tank.....
- G. Spill Prevention Equipment Y/N.....
- H.. Overfill Prevention Equipment Y/N.....
- I. Method of Closure Removed/Filled.....
- J. Date Tanks Removed/Filled.....
- K. Visible Corrosion or Pitting Y/N.....
- L. Visible Holes Y/N.....

Tank 1	Tank 2	Tank 3	Tank 4	Tank 5
N/A				
N/A				
N/A.				
N/A				
N/A				
N/A				
N/A				
N/A				
N/A				
N/A				
N/A				
N/A				

- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)

N/A

- N. Method of disposal for any liquid petroleum, sludges, or waste waters removed from the USTs (attach disposal manifests)

N/A.

- O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST

N/A

VI. PIPING INFORMATION

- A. Construction Material.....
- B. Distance from UST to Dispenser.....
- C. Number of Dispensers.....
- D. Type of System P/S.....
- E. Was Piping Removed from the Ground? Y/N....
- F. Visible Corrosion or Pitting Y/N.....
- G. Visible Holes Y/N.....
- H. Age.....

Tank 1	Tank 2	Tank 3	Tank 4	Tank 5
Steel				
N/A				
1				
s				
Y				
Y				
N				
Unk.				

- I. If any corrosion, pitting, or holes were observed, describe the location and extent for each line.

Surface rust and some pitting were observed on the portion of the piping under the slab in contact with the ground.

VII. BRIEF SITE DESCRIPTION AND HISTORY

No UST was found at this site. The purpose of this report is to document the conditions that were found. The suspicion of a UST was apparently based on the piping stub and the dispenser inlet piping that penetrated the concrete slab on which the dispenser was located. Removal of the slab showed the stub piping to be part of the dispenser inlet piping. This strongly suggest that an AST rather than UST supplied the dispenser. This is further supported by markings on top of the slab of the type that typical foundation legs for an AST would have made.

VIII. SITE CONDITIONS

	Yes	No	Unk
<p>A. Were any petroleum-stained or contaminated soils found in the suspected UST excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate depth and location on the site map.</p>	X		
<p>B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate location on site map and describe the odor (strong, mild, etc.)</p>	X		
<p>C. Was water present in the UST excavation, soil borings, or trenches?</p> <p>If yes, how far below land surface (indicate location and depth)?</p>		X	
<p>D. Did contaminated soils remain stockpiled on site after closure?</p> <p>If yes, indicate the stockpile location on the site map.</p> <p>Name of DHEC representative authorizing soil removal:</p>		X*	
<p>E. Was a petroleum sheen or free product detected on any excavation or boring waters?</p> <p>If yes, indicate location and thickness.</p>		X**	

* All excavated soil was returned to the pit.

** No groundwater was encountered.

IX. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 10120

B.

[illegible]

* = Depth Below the Surrounding Land Surface

X. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect and store (preserve) the samples.

Although no UST was found, one soil sample was taken. Sampling was performed in accordance with SC DHEC R.61-92 Part 280 and SC DHEC UST Assessment Guidelines.

Sample jars were prepared by the testing laboratory. Soil samples were extracted at the tank ends. The grab method was utilized to fill the sample containers leaving as little head space as possible and immediately capped. Samples for volatiles were taken using the Encore sampler and T-handle.

The samples were marked, logged, and immediately placed in sample coolers packed with ice to maintain an approximate temperature of 4° C. Tools were thoroughly cleaned and decontaminated with organic-free soap and water after each sample.

The samples remained in the custody of EEG, Inc. until they were transferred to General Engineering Laboratories for analysis as documented in the attached Chain-of-Custody Record.

XI. RECEPTORS

Yes No

<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST-system dispenser?</p> <p>If yes, indicate type of receptor, distance, and direction on site map.</p> <p style="text-align: center;">[~650' to Cooper River]</p>	X	
<p>B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST-system dispenser?</p> <p>If yes, indicate type of well, distance, and direction on site map.</p>		X
<p>C. Are there any underground structures (e.g., basements) located within 100 feet of the UST-system dispenser?</p> <p>If yes, indicate the type of structure, distance, and direction on site map.</p>		X
<p>D. Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST-system dispenser that could potentially come in contact with the contamination?</p> <p>If yes, indicate the type of utility, distance, and direction on the site map.</p>	X	
<p>E. Has contaminated soil been identified at a depth of less than 3 feet below land surface in an area that is not capped by asphalt or concrete?</p> <p>If yes, indicate the area of contaminated soil on the site map.</p>		X

Attachment I

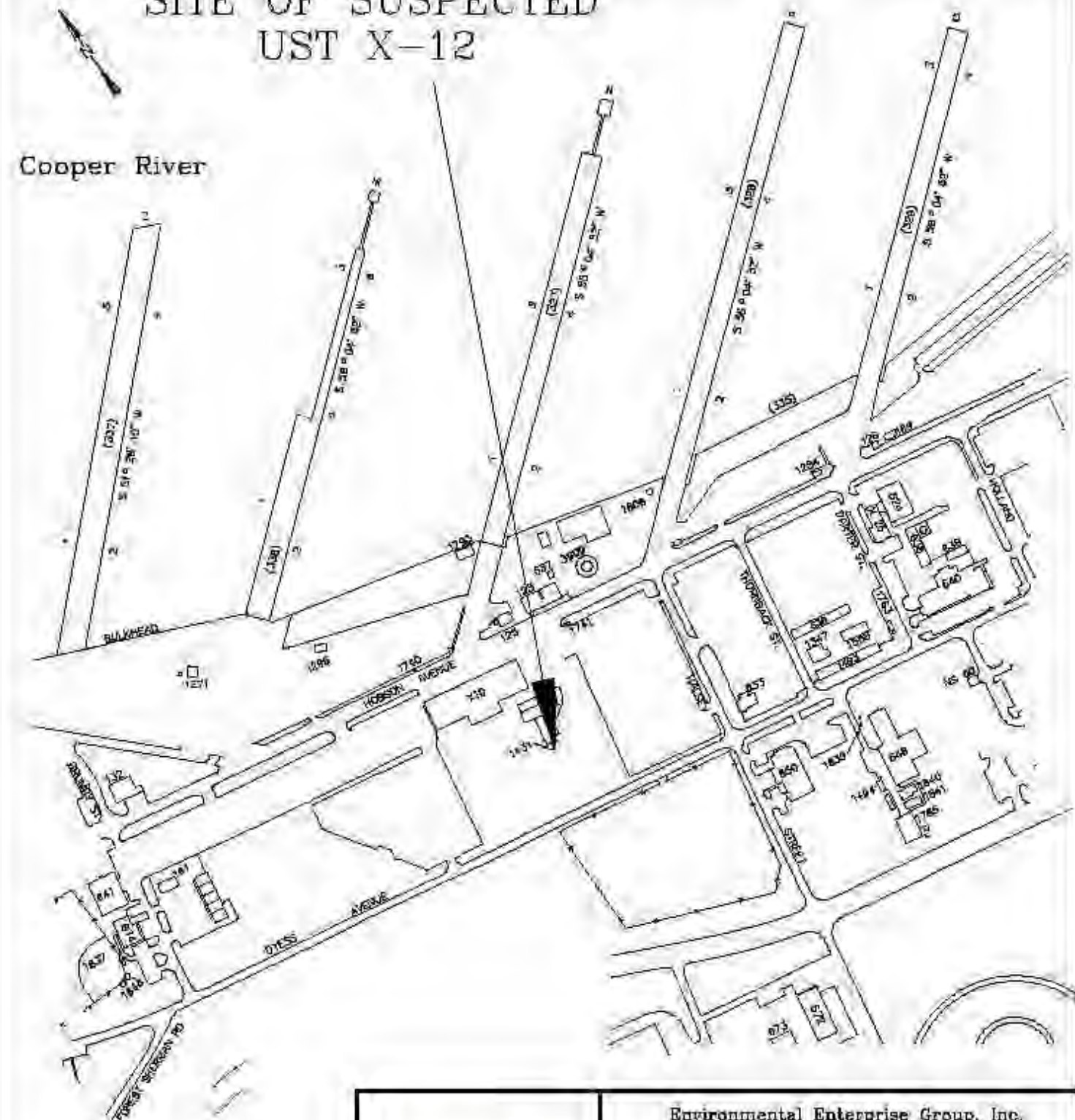
SITE MAP

You must supply a scaled site map. It should include all buildings, road names, utilities, tank and dispenser island locations, labeled sample locations, extent of excavation, and any other pertinent information.

Site Maps 1 and 2
Photographs A through F

SITE OF SUSPECTED UST X-12

Cooper River



GRAPHIC SCALE

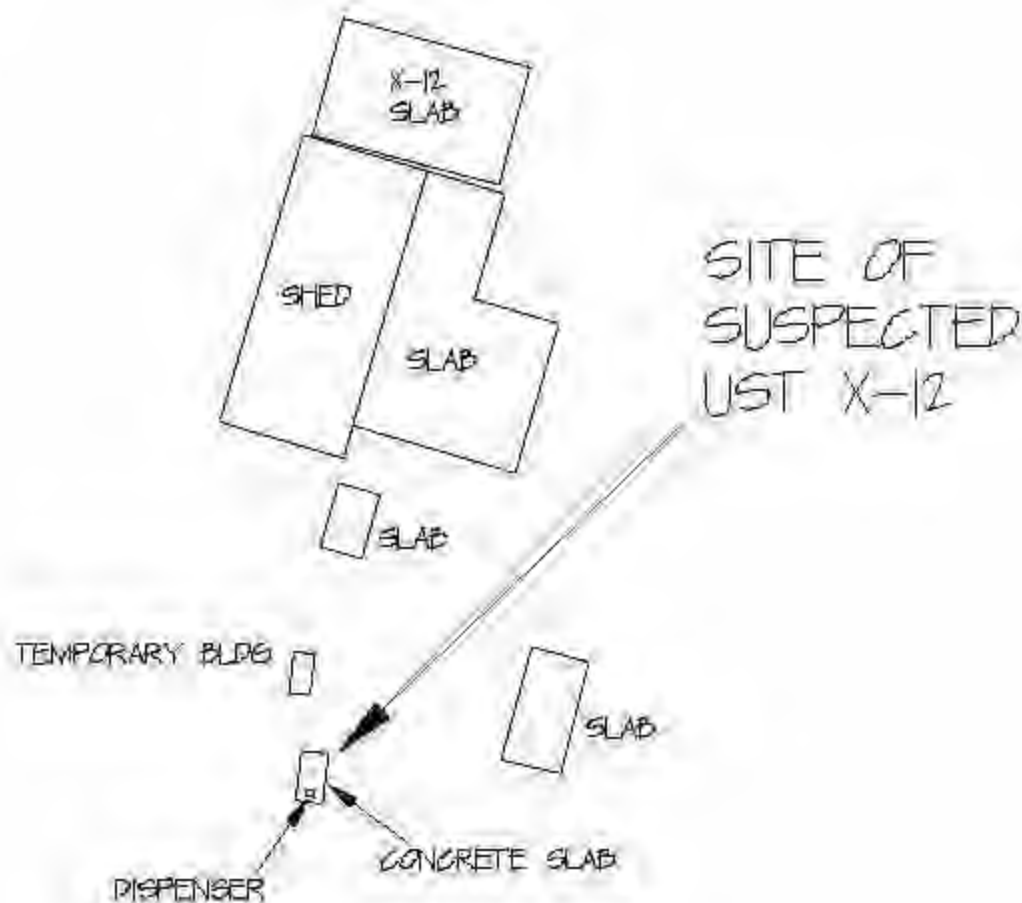


Environmental Enterprise Group, Inc.
1949 Avenue D
N. Charleston, SC 29405
Ph. 843.802.8082

Site Map 1
UST X-12
Charleston Naval Base
Charleston, SC

DWG DATE: 14 JUN 01

DWG NAME: X-12_1



Environmental Enterprise Group, Inc.
1949 Avenue D
N Charleston, SC 29405
Ph. 843.202.8082

Site Map 2
UST X-12
Charleston Naval Base
Charleston, SC

DWG DATE: 15 JUN 01

DWG NAME: x-12_2



Photo A – Site, looking east prior to commencing work.



Photo B – Site, looking north, prior to commencing work. Note that markings (see arrows) on the slab indicate an AST being previously installed here.



Photo C – Dispenser removed.



Photo D - Underside of slab showed piping connecting the dispenser and the piping stub shown in Photos B and C.



Photo E - Digging area that was underneath slab to a depth of five feet. Neither a UST nor any UST related piping was found.

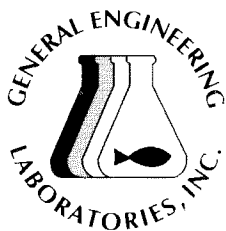


Photo F – Site restoration.

ANALYTICAL RESULTS

You must submit the laboratory report and chain-of-custody form for the samples. These samples must be analyzed by a South Carolina certified laboratory.

Certified Analytical Results
Chain-of-Custody



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Certificate of Analysis

Company : EEG, Inc.
Address : 1649 Avenue D
Charleston, SC 29405

Contact: Copes Wanamaker
Project: Routine Analytical - Wanamaker

Report Date: May 22, 2001

Page 1 of 2

Client Sample ID: 1-12
Sample ID: 42301001
Matrix: Soil
Collect Date: 15-MAY-01
Receive Date: 15-MAY-01
Collector: Client
Moisture: 23.8%

Project: EEGI00201
Client ID: EEGI001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-GC/MS											
<i>3550/8270 PAH STD LIST IN SOIL</i>											
Acenaphthene		75.4	5.25	43.7	ug/kg	1	KGB1	05/18/01	0023	78361	1
Acenaphthylene	U	ND	4.81	43.7	ug/kg	1					
Anthracene		126	6.12	43.7	ug/kg	1					
Benzo(a)anthracene		550	7.87	43.7	ug/kg	1					
Benzo(a)pyrene		389	2.62	43.7	ug/kg	1					
Benzo(b)fluoranthene		508	3.06	43.7	ug/kg	1					
Benzo(ghi)perylene		172	6.56	43.7	ug/kg	1					
Benzo(k)fluoranthene		565	6.56	43.7	ug/kg	1					
Chrysene		782	8.31	43.7	ug/kg	1					
Dibenzo(a,h)anthracene	U	ND	3.50	43.7	ug/kg	1					
Fluoranthene		2000	4.37	43.7	ug/kg	1					
Fluorene	U	ND	3.94	43.7	ug/kg	1					
Indeno(1,2,3-cd)pyrene		159	8.75	43.7	ug/kg	1					
Phenanthrene		609	5.25	43.7	ug/kg	1					
Pyrene		1930	11.4	43.7	ug/kg	1					
Volatile Organics											
<i>5035/8260B BTEX Extended List</i>											
Benzene	U	ND	0.574	2.94	ug/kg	1	TLW	05/16/01	1801	78028	2
Ethylbenzene	U	ND	0.515	2.94	ug/kg	1					
Naphthalene	U	ND	0.427	1.47	ug/kg	1					
Toluene	U	ND	0.736	2.94	ug/kg	1					
Xylenes (total)	U	ND	1.54	4.41	ug/kg	1					
tert-Butyl methyl ether	U	ND	3.35	2.94	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3550B	3550B BNA Soil Prep-8270C Analysis	RDH	05/17/01	1100	78145
SW846 5035	5030/8260A and 5035/8260B Prep	TLW	05/16/01	1739	78026

The following Analytical Methods were performed

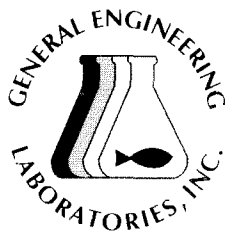
Method	Description
1	SW846 8270C
2	SW846 8260B

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178



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GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Certificate of Analysis

Company : EEG, Inc.
Address : 1649 Avenue D
Charleston, SC 29405

Contact: Copes Wanamaker
Project: Routine Analytical - Wanamaker

Report Date: May 22, 2001

Page 2 of 2

Client Sample ID: 1-12
Sample ID: 42301001

Project: EEGI00201
Client ID: EEGI001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Surrogate recovery	Test		Recovery %		Acceptable Limits						
2-Fluorobiphenyl		3550/8270 PAH STD LIST IN SOIL		77%	(42%-108%)						
Nitrobenzene-d5		3550/8270 PAH STD LIST IN SOIL		68%	(39%-107%)						
p-Terphenyl-d14		3550/8270 PAH STD LIST IN SOIL		97%	(46%-128%)						
Bromofluorobenzene		5035/8260B BTEX Extended List		93%	(61%-146%)						
Dibromofluoromethane		5035/8260B BTEX Extended List		98%	(54%-144%)						
Toluene-d8		5035/8260B BTEX Extended List		101%	(61%-131%)						

Notes:

The Qualifiers in this report are defined as follows :

- ** Indicates the analyte is a surrogate compound.
- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the compound was analyzed for but not detected above the detection limit

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Tom Seabrook at 843-556-8171 Ext. 4479.

Reviewed by



[illegible]

White = sample collector Yellow = file Pink = with report